

July 15, 2013

New York State Department of Environmental Conservation Region 7, Division of Environmental Remediation 615 Erie Boulevard West Syracuse, New York 13204

Attn:

Mr. Harry Warner, PE

Re:

Remedial Action Work Plan **PCB-Contaminated Topsoil**

Institute of Technology at Syracuse Central

258 East Adams Street

Syracuse, Onondaga County, New York

NYSDEC Spill No. 13-03516

ATL Engineering Report No. AE094CE-03-07-13

Ladies/Gentlemen:

Enclosed is an electronic copy of the Remedial Action Work Plan prepared by ATL Engineering, P.C. (ATL Engineering) for the referenced site. This report is being submitted by ATL Engineering, on behalf of RH Law, Inc.

Please contact our office should you have any questions, or if we may be of further assistance.

Sincerely,

ATL Engineering, P.C.

Cheyenne J. Dashnaw, PE Senior Project Manager

CJD/MBR/asv

Enclosures

REMEDIAL ACTION WORK PLAN

PCB-CONTAMINATED TOPSOIL
INSTITUTE OF TECHNOLOGY AT SYRACUSE CENTRAL
258 EAST ADAMS STREET
SYRACUSE, ONONDAGA COUNTY, NEW YORK
NYSDEC SPILL No. 13-03516



PREPARED FOR:

New York State Department of Environmental Conservation Region 7, Division of Environmental Remediation 615 Erie Boulevard West Syracuse, New York 13057

PREPARED BY:

ATL Engineering, P.C. 6431 US Highway 11 Canton, New York 13617

ATL ENGINEERING REPORT No. AE094CE-03-07-13

JULY 15, 2013

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1.0 INTRODUCTION

1.1 Purpose

ATL Engineering, P.C. (ATL Engineering) was retained by RH Law, Inc. (RH Law), to prepare a Remedial Action Work Plan (RAWP) for polychlorinated biphenyl (PCB)-contaminated topsoil that has been identified at the Institute of Technology at Syracuse Central site. The purpose of this RAWP is to summarize proposed remediation methods, selected in consideration of the project conditions and correspondence with the New York State Department of Environmental Conservation (NYSDEC). The PCB-impacted soil associated with the Institute of Technology at Syracuse Central site has been assigned NYSDEC Spill No. 13-03516.

This RAWP contains the scope of work and site-specific considerations associated with the remediation efforts that are proposed to effectively remove the PCB soil contamination at the subject site. The RAWP is based on information obtained from the following sources.

- Correspondence with representatives of the NYSDEC and RH Law
- ♦ Soil Investigation Report, prepared by ATL Engineering and dated July 11, 2013
- ♦ Summary of Analytical Results report, prepared by Certified Environmental Services, Inc. (CES), and dated June 4, 2013

1.2 Site Description

The Institute of Technology at Syracuse Central is located at 258 East Adams Street, Syracuse, Onondaga County, New York. The subject site is currently developed with a school building, associated asphalt-covered driveways and parking areas, and other appurtenant facilities. The subject site is located in an urban area, with surrounding properties primarily developed with commercial, educational/institutional, and municipal/civic buildings and facilities. There is a nearby residential housing complex to the east of the subject site. A Site Location Map, depicting the approximate location of the subject site, is included as Appendix A. A description of affected areas on the subject site is provided in Section 2.1.

1.3. Background Information

NYSDEC Spill No. 12-07324 was assigned to the RH Law property, located at 6883 Schuyler Road, East Syracuse, New York, subsequent to the identification of elevated PCB concentrations in topsoil material staged at that site. Soil sampling investigations performed by CES indicate the likely source of the PCB contamination is a site identified as Woodbine Office Park, located at the southeast intersection of Canada Drive and Loucks Road, East Syracuse, Onondaga County, New York. Prior to having knowledge of PCB within the referenced topsoil material, this material was placed by RH Law at five project sites, including the Institute of Technology at Syracuse Central site. Based on the separate locations and different owners of the affected sites, and as a means to manage each site individually with respect to investigation and remediation activities, the NYSDEC was contacted to assign a distinct spill number to each of the affected sites. The Institute of Technology at Syracuse Central site was assigned NYSDEC Spill No. 13-03516.

2.0 SITE CHARACTERIZATION AND DELINEATION

2.1 Areas of Concern and Affected Resources

The affected areas of the subject site, where topsoil was placed by RH Law during scheduled site improvements, are located adjacent to the east and south sides of the on-site Institute of Technology at Syracuse Central school building. The PCB Delineation Plan, contained in Appendix B, provides a site layout detailing the locations of the affected areas.

The area on the east side of the school building is currently grass-covered and bordered by the school building and concrete sidewalks. Saplings are located along the east portion of this area, and were planted with root balls and supplemental surrounding soil separate from, and subsequent to, the topsoil material placed by RH Law. The area on the south side of the school building is currently grass-covered and bordered by the school building and concrete sidewalks. Information provided by RH Law indicates the topsoil material was generally placed at depths of 4 to 6 inches. Furthermore, work for the area on the south side was initiated using two loads from the PCB-impacted topsoil stockpile staged at the RH Law facility, and additional material subsequently placed in that area was topsoil purchased from a different supplier.

As indicated on the PCB Delineation Plan in Appendix B and further discussed in Section 2.3, soil investigations conducted to-date have been performed by segmenting the affected areas into zones. The area on the east side of the school building was segmented into 14 zones, identified as A-1 through A-7 and B-1 through B-7. The area on the south side of the school building was segmented into 6 zones, identified as C-1 through C-6.

Available site data and records of site management indicate that affected environmental resources are limited to surface soil. Based on the shallow depth at which the topsoil material was placed, groundwater impacts are not considered to be a concern. The placement of sod over the affected topsoil material would limit impacts to surface water from precipitation. Due to the limited mobility of PCB in soil, it is anticipated that impacts from infiltration through the topsoil material would also be limited.

2.2 Site Exposure Considerations

Worker exposure considerations for remediation work include the potential for inhalation, and dermal contact with soil, debris, or waste decontamination liquids containing PCB contamination. Additional details pertaining to worker exposure considerations, safety procedures, and appropriate personal protective equipment (PPE) will be outlined in a site-specific health and safety plan to be prepared by Soaring Eagle Safety Consultants, Inc., on behalf of RH Law.

The potential for public exposure during site remediation activities would be limited through the establishment of a restricted access work area. Furthermore, the remediation work is scheduled to be performed during the summer months while school operations are minimal. Additional details pertaining to work area setup and public exposure considerations will be outlined in the referenced site-specific health and safety plan.

2.3 Summary of Previous Investigation Results

Soil sampling and analysis, conducted by CES in May 2013, identified PCB within the topsoil material. The sampling was performed in accordance with a sampling plan submitted to the NYSDEC by CES and dated April 19, 2013. Composite soil samples were collected from segmented zones on May 2, 2013. The collected samples were laboratory analyzed by CES, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) approved laboratory (ELAP No. One of the collected samples was split and submitted to Life Science Laboratories, Inc. (LSL) for analysis. LSL is a NYSDOH ELAP approved laboratory under ELAP No. 10248. CES performed PCB analysis in accordance with EPA Method 8082, using Soxhlet extraction (EPA Method 3540C). LSL performed PCB analysis in accordance with EPA Method 8082, using ultrasonic extraction (EPA Method 3550B). A summary of the laboratory analysis results for soil samples collected by CES is included in the Soil Investigation Report prepared by ATL Engineering and dated July 11, 2013. A copy of this report is contained in Appendix C. The PCB Delineation Plan, contained in Appendix B, depicts the analytical results for each sampled zone.

Analytical results for soil samples collected from the subject site by CES, in addition to soil samples collected by CES while investigating other sites impacted by the same source topsoil material, exhibited notable variations between duplicate and split samples and the different extraction methods. Due to these variations, additional sampling and analysis was provided by ATL Engineering. As indicated in a PCB-Contaminated Soil Management Summary letter (ATL Engineering Report No. AE094CE-01-07-13, dated July 2, 2013), submitted by ATL Engineering to the NYSDEC for review and approval, the additional sampling and analysis was specifically provided in zones previously determined to contain greater than 50 parts per million (ppm) PCB and zones where PCB were identified at concentrations close to the 50 ppm limit (i.e., material within the range of 40 to 49 ppm). For each zone of concern, a total of 4 grab samples were collected and submitted to a NYSDOH ELAP approved laboratory not previously used in the investigations performed by CES. The additional soil samples were collected by ATL Engineering on July 3, 2013. As indicated by the previous sampling and analysis provided by CES, the sampling zones designated as A-6, A-7, and B-3 exhibited PCB concentrations exceeding 50 ppm. None of the previously collected samples were within the 40 to 49 ppm range.

The soil samples collected by ATL Engineering on July 3, 2013, were submitted to Pace Analytical Services, Inc., located in Schenectady, New York, a NYSDOH ELAP approved laboratory (ELAP No. 11078). The samples were extracted by Accelerated Solvent Extraction (ASE), in accordance with EPA Method 3545, and laboratory analyzed for PCB, in accordance with method EPA Method 8082. A summary of the laboratory analysis results is included in the Soil Investigation Report prepared by ATL Engineering and dated July 11, 2013. A copy of this report is contained in Appendix C. The PCB Delineation Plan, contained in Appendix B, depicts the analytical results for each sampled zone.

As indicated in the Soil Investigation Report prepared by ATL Engineering and dated July 11, 2013, laboratory analysis results for composite soil samples collected by CES on May 2, 2013, and grab soil samples collected by ATL Engineering on July 3, 2013, identified detectable concentrations of PCB, specifically Aroclor 1248. With the exception of composite samples from three sampling zones (A-6, A-7, B-3), the detected PCB concentrations for soil samples collected by CES were below the hazardous material limit of 50 ppm, and not within a range considered to be close to the hazardous material limit

(i.e., material within the range of 40 to 49 ppm). The PCB Delineation Plan, contained in Appendix B, shows areas with soil determined to contain greater than 50 ppm PCB and areas with soil determined to contain less than 50 ppm PCB.

3.0 PROPOSED REMEDIAL ACTION

The following sections summarize proposed remedial action that will be implemented at the subject site. In general, proposed remedial activities include removal and segregation of impacted soil, disposal of soil at approved landfill facilities, and subsequent post-excavation confirmation sampling and analysis. A Project Remediation Flow Chart, contained in Appendix D, depicts a general outline of the proposed remedial action steps.

3.1 Site Cleanup Goals

Consideration has been given to the desired cleanup goals to be met at the subject site, through correspondence between representatives of ATL Engineering, RH Law, and the NYSDEC. The primary factors that were evaluated for selecting appropriate site cleanup goals are listed below.

- Current property usage and anticipated future property usage as a school facility
- ♦ Potential for future exposure
- Available site data and records for placement of the PCB-impacted soil
- Expected interest of property owner to attain pre-existing conditions
- ◆ Established NYSDEC unrestricted use Soil Cleanup Objectives (SCO)

It is the intent of RH Law, in the interest of the property owner and as necessary to effectively address the identified PCB contamination, to remove the PCB-impacted topsoil throughout the depth of placement. Furthermore, the remaining underlying soil material will be evaluated subsequent to excavation activities to assess potential residual PCB concentrations. Collected post-excavation soil samples shall be compliant with the NYSDEC unrestricted use SCO for PCB in surface soil, established at 1 ppm. The remediated area will be covered with replacement topsoil and landscaped pursuant to agreements between RH Law and the property owner.

3.2 NYSDEC and EPA Notification

Investigation and remediation activities for the subject site are being coordinated and managed through the NYSDEC, Region 7, under NYSDEC Spill No. 13-03516. As requested, the NYSDEC will be notified in advance of any site investigation or remediation work to be performed. Due to the presence of zones of soil material containing greater than 50 ppm PCB, the EPA will be notified of the remediation work and an EPA identification number will be obtained for the subject site, as necessary to track management and disposal of the material containing greater than 50 ppm PCB.

3.3 Site Preparation and Management

3.3.1 Site Health and Safety Plan

A site-specific health and safety plan is being prepared by Soaring Eagle Safety Consultants, Inc., on behalf of RH Law.

3.3.2 Worker Training and Personal Protective Equipment

RH Law has contracted with Soaring Eagle Safety Consultants, Inc., to receive appropriate training for workers that engaged in the site remediation activities. Other site personnel, including representatives of ATL Engineering conducting remediation monitoring and soil sampling and analysis activities, will also have appropriate training prior to the remediation project. All personnel on-site during remediation work will be required to review the site-specific health and safety plan and attend daily safety meetings. Required PPE will be as specified in the site-specific health and safety plan.

3.3.3 Work Area Setup and Decontamination Procedures

Protocol for work area setup and decontamination procedures are included in the site-specific health and safety plan to be prepared by Soaring Eagle Safety Consultants, Inc.

3.4 Excavation Monitoring

A representative of ATL Engineering will be on-site during remediation activities to monitor excavation activities, examine exposed soil, and collect post-excavation soil samples. The on-site environmental consultant will also be available to provide guidance relative to the RAWP described herein.

Daily remediation monitoring logs will be maintained at the project site. To the extent possible, based on project conditions and capacity of on-site representatives, the following items will be recorded on daily field logs and/or other applicable forms.

- ♦ Contractor(s) and subcontractor(s) hours on-site
- ♦ Log of on-site personnel and companies, including workers and visitors
- Description of major equipment used on-site to facilitate remediation activities
- Weather conditions
- General observations relating to work progress
- ♦ Photographs along with description of subject, location, and direction (if applicable)
- Record of collected samples
- ♦ Record of project-related correspondence

3.5 PCB-Contaminated Soil Excavation and Segregation

Excavation activities will be performed by RH Law. PCB-contaminated soil will be removed from zones, designated during the site investigation and characterization phase, and either live loaded for direct transport to the appropriate landfill facility, or temporarily placed in stockpiles at predetermined, designated locations. Zones have been segregated between material exhibiting greater than 50 ppm PCB and material containing less than 50 ppm PCB. Reference the PCB Delineation Plan, contained in Appendix B, for a layout of the zones and associated previously determined PCB concentrations for collected soil samples.

In addition to the zones segregated between material exhibiting greater than 50 ppm PCB and material containing less than 50 ppm PCB, there are zones on the south side of the school building where soil samples were determined to be non-detect for PCB, and there are saplings on the east side of the school building. With regard to the zones on the south side of the school building determined to have non-detect PCB concentrations, these areas will not require excavation. Available records indicate only two loads of topsoil from

the PCB-impacted material staged at the RH Law property were hauled and deposited along the south side of the school building, and the balance of the topsoil placed at this location was purchased from a different supplier. Furthermore, the two loads were loaded and hauled on a different date than loads hauled and placed along the east side of the school building. With regard to the saplings, and in consideration of the surrounding soil primarily consisting of material that would have originated from a different source than that of the PCB-impacted topsoil, it is anticipated remediation work can be performed around the saplings. The approximate 4- to 6-inch layer of impacted topsoil, and/or non-impacted topsoil placed during planting of the saplings, would be removed via a combination of mechanical excavator equipment and manual digging, as necessary to prevent damage to the saplings, and the saplings and associated root balls would be maintained as-is.

The preferred method for handling excavated soil is to live load the material for direct transport to the landfill facility. In the event that material needs to be temporarily stockpiled, separate piles will be maintained for soil with greater than 50 ppm PCB and soil with less than 50 ppm. To the extent possible, the locations selected for the soil stockpiles will have sufficient area to contain the anticipated volume of soil to be removed, consist of relatively flat land that would not be susceptible to flooding or inundation of water during precipitation events, be readily accessible to equipment that will be utilized for loading and hauling the material, and be located away from stormwater or site drainage components, wells, and any wetlands, streams, rivers, or other water bodies. Contaminated soil stockpiles will be placed on and covered with 6-mil polyethylene sheeting or other comparable impervious material that can be readily removed and disposed of. Polyethylene sheeting, or other impervious membrane used for the base of the soil stockpile, will be placed with sheets overlapping a minimum of 1 foot. The base of the soil stockpile will be bermed at the perimeter to contain the soil stockpile and potential runoff during precipitation events. The berm materials, which can be comprised of mounds of clean soil material, hay bales, lumber, or other readily available suitable materials, will be placed along the perimeter and wrapped with the polyethylene sheeting or other impervious membrane that is used for the base of the soil stockpile. To minimize extraneous handling of materials and the size of the completed soil stockpile areas, the berm perimeter will initially be constructed along 2 sides, and the remaining 2 sides will be constructed after all soil material is placed in the stockpile or temporarily bermed at the end of each workday.

To the extent possible, the height and slopes of soil stockpiles will be limited such that slope stability is not compromised during storage or the loading process. Soil stockpiles will be covered with the polyethylene sheeting upon placement of all impacted soil material or at the end of each workday. Seams will be overlapped a minimum of 1 foot. The stockpile cover will be sufficiently weighted to contain the stored soil and resist damage from wind. Materials used to weigh down and stabilize the stockpile cover will consist of readily available materials that would not tend to damage the cover upon placement (e.g., clean soil material, sand bags, tires).

Temporary on-site soil stockpiles will be periodically inspected to ensure that the material continues to be contained and is not released to the surrounding environment. Temporary on-site soil stockpiles will need to be properly protected and maintained until removal and off-site disposal. Soil stockpiles shall not remain on-site in excess of 60 days. Polyethylene sheeting will be repaired or replaced as needed. Water from precipitation events that ponds on the surface of the stockpile cover will be removed upon discovery. The ponded water can be discharged on-site provided there is no contact with the PCB-

contaminated soil. Water that contacts the PCB-impacted soil will be properly containerized and managed as impacted wastewater.

3.6 PCB-Contaminated Soil Disposal

The PCB-contaminated soil material will be loaded and hauled to an approved off-site landfill facility for disposal. The waste material that is considered hazardous (i.e., greater than 50 ppm PCB) will need to be hauled to a hazardous waste landfill, tracked under an appropriate EPA identification number and waste manifest documentation. The waste material that is considered to be non-hazardous (i.e., less than 50 ppm PCB), will be transferred to a local landfill that is permitted to accept this type of waste. For this project, RH Law has selected CWM Chemical Services, LLC, located in Model City, Niagara County, New York, as the destination facility for the hazardous waste. CWM Chemical Services, LLC, maintains a 6 NYCRR Part 373, Hazardous Waste Management Permit under NYSDEC Permit No. 9-2934-00022/00097 and EPA ID No. NYD049836679. RH Law has selected Seneca Meadows, Inc., located at 1786 Salcman Road, Waterloo, Seneca County, New York, as the destination facility for the non-hazardous waste. Seneca Meadows, Inc., maintains a 6 NYCRR Part 360 permit under NYSDEC Permit No. 8453200023/00001.

Waste liquid generated during the excavation activities will be transferred to an appropriate disposal facility, with waste profiles and laboratory analysis completed as required by the selected receiving facility. It is anticipated that waste liquid sources would be limited to waste liquids generated during decontamination activities, but may also include impacted water from precipitation that comes into contact with the PCB-impacted soil.

Trucks used to haul waste materials off-site must be permitted to haul the type of waste generated, in accordance with 6 NYCRR Part 364 regulatory requirements. Copies of waste manifests and/or disposal receipts shall be retained for all wastes generated in association with the site remediation activities. Copies of these documents will be included with the Remediation Action Report (RAR) that is completed for the site remediation.

3.7 Post-Excavation Soil Sampling and Analysis

3.7.1 Sample Locations and Methodology

Prior to, or during, the excavation activities, cleanup confirmation soil samples will be collected from each excavated zone. The soil sample from each zone will consist of three grab samples collected in a triangular pattern within the zone and subsequently composited into a single sample for laboratory analysis. The Post-Excavation Soil Sampling Plan, contained in Appendix E, shows the general layout of the cleanup confirmation soil sample locations.

Dedicated disposable sampling equipment and/or items that can be readily decontaminated between sample locations will be used to collect the post-excavation confirmation soil samples throughout the area that the sample will be representative of. Soil samples will be collected in clean laboratory glassware, with Teflon-lined lids, in accordance with industry standard protocol. Samples will be stored in a cooler, with ice, and maintained at approximately 4°C during storage and delivery to the laboratory.

3.7.2 Laboratory Analysis

The confirmation soil samples will be submitted to Pace Analytical Services, Inc., located in Schenectady, New York, a NYSDOH ELAP approved laboratory (ELAP No. 11078). The samples were laboratory analyzed for PCB, in accordance with EPA Method 8082 using Accelerated Solvent Extraction (ASE) (EPA Method 3545).

3.7.3 Quality Assurance/Quality Control

For quality assurance/quality control, ATL Engineering representatives will collect field duplicates, rinsate blanks, and matrix spike/matrix spike duplicate (MS/MSD) samples. Field duplicate samples and MS/MSD samples will be collected at a frequency of 1 per 20 samples collected, or at least one per day. Rinsate blank samples will be collected at a frequency of one per day.

3.8 Waste Characterization Sampling and Analysis

3.8.1 Sampling Methodology

A composite waste characterization soil sample(s) will be collected from the material exhibiting greater than 50 ppm PCB, if necessary to complete waste profile requirements prior to disposal at an approved hazardous waste landfill facility (CWM Chemical Services, Inc.). For material exhibiting less than 50 ppm PCB, the PCB analysis data collected during the site investigation and characterization phase has been determined to be sufficient to characterize and profile the waste prior to acceptance by the selected landfill facility (Seneca Meadows, Inc.).

Soil samples will be collected in clean laboratory glassware, with Teflon-lined lids, in accordance with industry standard protocol. Disposable sampling equipment (i.e., aluminum pans, nitrile gloves) will be utilized to collect samples. Reusable tools will be decontaminated subsequent to use. Samples will be stored in a cooler, with ice, and maintained at approximately 4°C during storage and delivery to the laboratory.

3.8.2 Laboratory Analysis

Collected waste characterization soil samples will be submitted to Pace Analytical Services, Inc., located in Schenectady, New York, a NYSDOH ELAP approved laboratory (ELAP No. 11078). The samples would be laboratory analyzed for pH/corrosivity, flashpoint/ignitability, paint filter test, and/or reactivity.

3.9 Topsoil Replacement and Landscaping

Subsequent to completion of excavation activities and receipt of satisfactory cleanup confirmation soil sampling and analysis results for the designated zones, RH Law will replace the removed topsoil with a clean topsoil material and landscape the area pursuant to agreements between RH Law and the property owner.

3.10 Remedial Action Report

Subsequent to completion of the proposed remedy for the PCB impacted top soil at the subject site, ATL Engineering will prepare a Remedial Action Report (RAR) for submittal, review, and approval by the NYSDEC. The RAR will include the following:

- ◆ A summary of our findings, and a description of the methodologies employed and significant field observations made during the remedial activities
- ◆ Copies of the laboratory reports and associated sample custody documentation, and a discussion of the laboratory results
- ♦ Copies of waste manifests and/or disposal receipts
- ♦ A Remediation Plan (not-to-scale), illustrating the extent of the excavation activities, soil sample locations, and other pertinent site features. The Remediation Plan drawing will be based on drawings previously prepared for the subject sites
- ◆ Recommendations regarding site spill closure or modified and/or additional remedial activities, as warranted

4.0 SCHEDULE CONSIDERATIONS

RH Law intends to complete all remediation and site restoration work for the subject site during the summer months while the school facility is not in session and school site operations are minimal. This approach is beneficial to the site owner and the general public, as there would be better control and security of the established work area and reduced potential for public exposure.

5.0 PROJECT CONTACT INFORMATION

The following contact information is provided for reference, and lists key personnel and telephone numbers to facilitate effective communication in the event that suspect petroleum-contaminated soil is encountered during excavation activities.

Entity Role		Primary Contact	Phone Numbers
Institute of Technology at Syracuse Central	Facility Representative Gilbane Building Company	Mr. Sam Tuzza	Office: 315-422-4500
RH Law, Inc. Site Remediation and Management		Mr. Richard Law	Office: 315-437-5906 Cellular: 315-437-3650
ATL Engineering	Environmental Consultant	Mr. Cheyenne Dashnaw, PE	Office: 315-386-4578 Cellular: 315-261-8144
Soaring Eagle Safety Consultants, Inc.	Health and Safety Consultant	Mr. Paul W. Tranchell, CIH, CSP, RBP	Office: 315-506-6690
NYSDEC Region 7 Office	Regulatory Review and Compliance	Mr. Harry Warner, PE	Office: 315-426-7400

Appendix A

Site Location Map

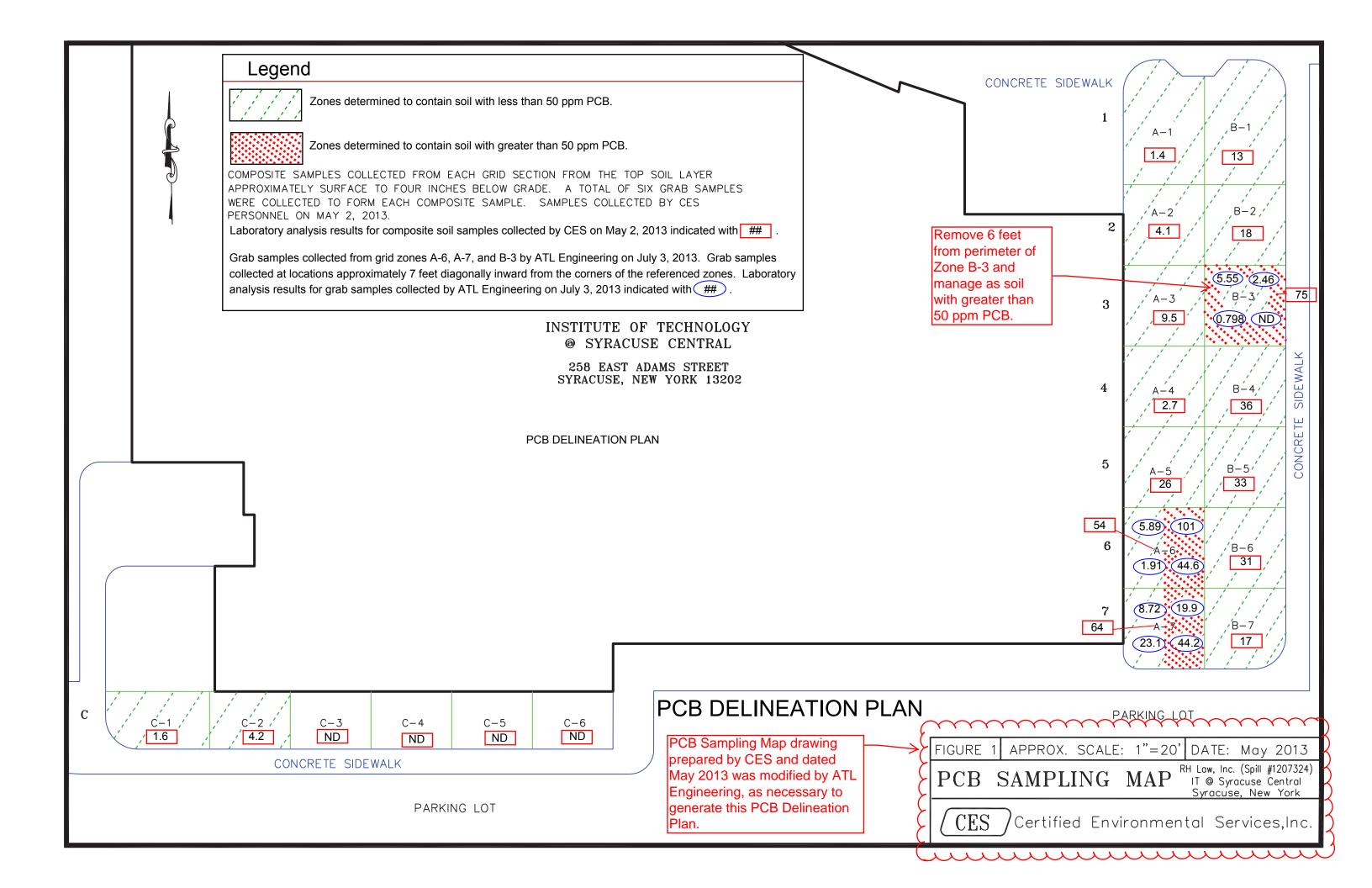


Syracuse Institute of Technology 258 East Adams Street Syracuse, New York

Albany, NY Poughkeepsie, NY Binghamton, NY Syracuse, NY

Canton, NY Rochester, NY Elmira, NY Utica, NY Plattsburgh, NY Watertown, NY Appendix B

PCB Delineation Plan



Appendix C

Soil Investigation Report



July 11, 2013

New York State Department of Environmental Conservation Region 7, Division of Environmental Remediation 615 Erie Boulevard West Syracuse, New York 13204

Attn: Mr. Harry Warner, PE

Re: Soil Investigation Report

NYSDEC Spill No. 13-03516

Institute of Technology at Syracuse Central

258 East Adams Street

Syracuse, Onondaga County, New York

ATL Engineering Report No. AE094CE-02-07-13

Ladies/Gentlemen:

The information presented herein is provided as a summary of findings for soil investigations that were performed for the subject site. The soil investigations were initially conducted by Certified Environmental Services, Inc. (CES), and subsequently by ATL Engineering, P.C. (ATL Engineering), to evaluate the extent of polychlorinated biphenyls (PCB) in topsoil material that was placed at the subject site by RH Law, Inc. (RH Law) between July 26, and August 3, 2012.

Site Description

The Institute of Technology at Syracuse Central is located at 258 East Adams Street, Syracuse, Onondaga County, New York. The affected areas of the subject site, where topsoil was placed by RH Law during scheduled site improvements, are located adjacent to the east and south sides of the on-site Institute of Technology at Syracuse Central school building. A Site Location Map, depicting the approximate location of the subject site and affected areas, is included as Attachment A.

The area on the east side of the school building is currently grass-covered and bordered by the school building and concrete sidewalks. Saplings are located along the east portion of this area, and were planted with root balls and supplemental surrounding soil separate from and subsequent to the topsoil material placed by RH Law. The area on the south side of the school building is currently grass-covered and bordered by the school building and concrete sidewalks. Information provided by RH Law indicates the topsoil material was generally placed at depths of 4 to 6 inches. Furthermore, work for the area on the south side was initiated using two loads from the topsoil staged at the RH Law facility, and additional material subsequently placed in that area was topsoil purchased from a different supplier.

 Canton:
 6431 US Highway 11
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 315-386-4578 (T)
 315-386-1012 (F)

 Albany:
 22 Corporate Drive
 Clifton Park, NY 12065
 518-383-9144 (T)
 518-383-9166 (F)

Background Information

New York State Department of Environmental Conservation (NYSDEC) Spill No. 12-07324 was assigned to the RH Law property, located at 6883 Schuyler Road, East Syracuse, New York, subsequent to the identification of elevated PCB concentrations in topsoil material staged at that site. Soil sampling investigations performed by CES indicate the likely source of the PCB contamination is a site identified as Woodbine Office Park, located at the southeast intersection of Canada Drive and Loucks Road, East Syracuse, Onondaga County, New York. Prior to having knowledge of PCB within the referenced topsoil material, this material was placed by RH Law at five project sites, including the Institute of Technology at Syracuse Central site. Based on the separate locations and different owners of the affected sites, and as a means to manage each site individually with respect to investigation and remediation activities, the NYSDEC was contacted to assign a distinct spill number to each of the affected sites. The Institute of Technology at Syracuse Central site was assigned NYSDEC Spill No. 13-03516.

Soil Sampling and Analysis

Soil sampling and analysis, conducted by CES in May 2013, identified PCB within the topsoil material. The sampling was conducted by CES in accordance with a sampling plan submitted to the NYSDEC by CES and dated April 19, 2013. Composite soil samples were collected from segmented zones. The area on the east side of the Institute of Technology at Syracuse Central school building was segmented into approximate 20- by 20-foot zones. The area on the south side of the Institute of Technology at Syracuse Central school building was segmented into zones of approximately 20 feet in the east-west direction and approximately 16 feet in the north-south direction (the distance between the school building on the north side and the concrete sidewalk on the south side). Attachment B includes a Sample Location Plan, originally prepared by CES to include the sampled zones and associated zone identifications, with modifications by ATL Engineering to show locations of additional collected samples and corresponding analytical results.

Composite soil samples collected by CES on May 2, 2013, were laboratory analyzed by CES, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) approved laboratory (ELAP No. 11246). One of the collected samples was split and submitted to Life Science Laboratories, Inc. (LSL) for analysis. LSL is a NYSDOH ELAP approved laboratory under ELAP No. 10248. CES performed PCB analysis in accordance with EPA Method 8082, using Soxhlet extraction (EPA Method 3540C). LSL performed PCB analysis in accordance with EPA Method 8082, using ultrasonic extraction (EPA Method 3550B). A summary of the laboratory analysis results for soil samples collected by CES is included in Table I under the "Summary of Findings" section.

Analytical results for soil samples collected from the subject site by CES, in addition to soil samples collected by CES while investigating other sites impacted by the same source topsoil material, exhibited notable variations between duplicate and split samples and the different extraction methods. Due to these variations, additional sampling and analysis was provided by ATL Engineering. As indicated in a PCB-Contaminated Soil Management Summary letter (ATL Engineering Report No. AE094CE-01-07-13, dated July 2, 2013), submitted by ATL Engineering to the NYSDEC for review and approval, the additional sampling and analysis was specifically provided in zones previously determined to contain greater than 50 parts per million (ppm) PCB and zones where PCB were identified at concentrations close to the 50 ppm limit (i.e., material within the range of 40 to 49 ppm). For each zone of concern, a total of 4 grab samples were collected and submitted to a NYSDOH ELAP approved laboratory not previously used in the investigations performed by CES. The additional soil samples were collected by ATL Engineering on July 3, 2013.

As indicated by the previous sampling and analysis provided by CES, the sampling zones designated as A-6, A-7, and B-3 exhibited PCB concentrations exceeding 50 ppm. None of the previously collected samples were within the 40 to 49 ppm range. The approximate limits of the referenced zones of concern (A-6, A-7, B-3), as demarcated by CES using green flagging tape pinned to the ground surface, were located by ATL Engineering prior to sample collection. For each zone of concern, the four grab sample locations were selected by measuring approximately 7 feet diagonally inward from the corners of each 20-feet by 20-feet zone sampled. Approximate sample locations are shown on the Sample Location Plan in Attachment B.

Soil samples were collected by ATL Engineering at each of the selected grab locations, utilizing a trowel and dedicated, disposable aluminum pan. The trowel, being the only equipment in contact with soil at multiple sampling locations, was decontaminated between each location. The grab soil samples were collected by initially removing the vegetative layer and then retrieving the underlying soil material to a depth of approximately 6 inches, consistent with the sample depth intervals previously selected by CES and the reported depth of topsoil placement. The recovered soil was placed in a dedicated, disposable aluminum pan for mixing. Portions of the mixed soil were placed in clean laboratory glassware, with Teflon-lined lids, in accordance with industry standard protocol. Samples were stored in a cooler, with ice, and maintained at approximately 4°C during storage and delivery to the laboratory.

The soil samples collected by ATL Engineering were submitted to Pace Analytical Services, Inc., located in Schenectady, New York, a NYSDOH ELAP approved laboratory (ELAP No. 11078). The samples were extracted by Accelerated Solvent Extraction (ASE), in accordance with EPA Method 3545, and laboratory analyzed for PCB, in accordance with method EPA Method 8082. A copy of the laboratory report and associated sample custody documentation for the referenced samples are contained in Attachment C. A summary of the laboratory analysis results is included in Table I under the "Summary of Findings" section.

Summary of Findings

A summary of the laboratory analysis results for the composite soil samples collected by CES on May 2, 2013, and the grab soil samples collected by ATL Engineering on July 3, 2013, is provided in Table I below. Sample zone identifications are referenced from the Sample Location Plan contained in Attachment B. This drawing was originally prepared by CES to show the designated zone identifications, and was subsequently modified by ATL to include approximate locations of the additional grab samples and corresponding laboratory analysis results.

Table I
Summary of Laboratory Analysis Results

Sample Identification (Collected by)	Date Collected	Sample Type	Sample Zone	Analyzed by	Extraction Method	Total PCB Detected (ppm)
A-1 (CES)	05/02/13	Composite	A-1	CES	EPA 3540C	1.4
A-2 (CES)	05/02/13	Composite	A-2	CES	EPA 3540C	4.1
A-3 (CES)	05/02/13	Composite	A-3	CES	EPA 3540C	9.5
A-4 (CES)	05/02/13	Composite	A-4	CES	EPA 3540C	2.7
A-5 (CES)	05/02/13	Composite	A-5	CES	EPA 3540C	26

Table I (continued) Summary of Laboratory Analysis Results

Sample Identification (Collected by)	Date Collected	Sample Type	Sample Zone	Analyzed by	Extraction Method	Total PCB Detected (ppm)
A-6 (CES)	05/02/13	Composite	A-6	CES	EPA 3540C	54
AE094S-IT01-07-03-13 (ATL Engineering)	07/03/13	Grab	A-6	Pace	EPA 3545	44.6
AE094S-IT02-07-03-13 (ATL Engineering)	07/03/13	Grab	A-6	Pace	EPA 3545	1.91
AE094S-IT03-07-03-13 (ATL Engineering)	07/03/13	Grab	A-6	Pace	EPA 3545	5.89
AE094FD-IT-07-03-13 (ATL Engineering)	07/03/13	Grab	A-6	Pace	EPA 3545	4.56
AE094S-IT04-07-03-13 (ATL Engineering)	07/03/13	Grab	A-6	Pace	EPA 3545	101
A-7 (CES)	05/02/13	Composite	A-7	CES	EPA 3540C	64
AE094S-IT05-07-03-13 (ATL Engineering)	07/03/13	Grab	A-7	Pace	EPA 3545	23.1
AE094S-IT06-07-03-13 (ATL Engineering)	07/03/13	Grab	A-7	Pace	EPA 3545	44.2
AE094S-IT07-07-03-13 (ATL Engineering)	07/03/13	Grab	A-7	Pace	EPA 3545	19.9
AE094S-IT08-07-03-13 (ATL Engineering)	07/03/13	Grab	A-7	Pace	EPA 3545	8.72
B-1 (CES)	05/02/13	Composite	B-1	CES	EPA 3540C	13
B-2 (CES)	05/02/13	Composite	B-2	CES	EPA 3540C	18
B-3 (CES)	05/02/13	Composite	B-3	CES	EPA 3540C	75
AE094S-IT09-07-03-13 (ATL Engineering)	07/03/13	Grab	B-3	Pace	EPA 3545	0.798
AE094S-IT10-07-03-13 (ATL Engineering)	07/03/13	Grab	B-3	Pace	EPA 3545	ND
AE094S-IT11-07-03-13 (ATL Engineering)	07/03/13	Grab	B-3	Pace	EPA 3545	2.46
AE094S-IT12-07-03-13 (ATL Engineering)	07/03/13	Grab	B-3	Pace	EPA 3545	5.55
B-4 (CES)	05/02/13	Composite	B-4	CES	EPA 3540C	36
B-5 (CES)	05/02/13	Composite	B-5	CES	EPA 3540C	33
B-6 (CES)	05/02/13	Composite	B-6	CES	EPA 3540C	31
B-7 (CES)	05/02/13	Composite	B-7	CES	EPA 3540C	17
C-1 (CES)	05/02/13	Composite	C-1	CES	EPA 3540C	1.6
C-1 Split Sample (CES)	05/02/13	Composite	C-1	LSL	EPA 3550B	1.8
C-2 (CES)	05/02/13	Composite	C-2	CES	EPA 3540C	4.2
C-3 (CES)	05/02/13	Composite	C-3	CES	EPA 3540C	ND ND
C-4 (CES)	05/02/13	Composite	C-4 C-5	CES	EPA 3540C	ND ND
C-5 (CES) C-6 (CES)	05/02/13 05/02/13	Composite Composite	C-6	CES	EPA 3540C EPA 3540C	ND ND
C-6 (CES) C-6 Field Duplicate (CES)	05/02/13	Composite	C-6	CES	EPA 3540C	ND

Notes: Sample zone identifications are referenced from the Sample Location Plan, included as Attachment B.

All laboratory results are expressed in parts per million (ppm), or mg/kg.

ND = Not detected above the laboratory method detection limits.

The detected PCB for all collected samples are Aroclor 1248.

Conclusions and Recommendations

As indicated in Table I under the Summary of Findings section, laboratory analysis results for composite soil samples collected by CES on May 2, 2013, and grab soil samples collected by ATL Engineering on July 3, 2013, identified detectable concentrations of PCB, specifically Aroclor 1248. With the exception of composite samples from three sampling zones (A-6, A-7, B-3), the detected PCB concentrations for soil samples collected by CES were below the hazardous material limit of 50 ppm, and not within a range considered to be close to the hazardous material limit (i.e., material within the range of 40 to 49 ppm). For the supplemental grab soil samples collected by ATL Engineering within the three sampling zones that exhibited PCB concentrations exceeding 50 ppm, laboratory analysis results identified PCB concentrations ranging from 1.91 to 101 ppm for zone A-6, 8.72 to 44.2 ppm for zone A-7, and non-detect to 5.55 ppm for zone B-3.

Pursuant to the information provided in the PCB-Contaminated Soil Management Summary letter (ATL Engineering Report No. AE094CE-01-07-13, dated July 2, 2013), submitted by ATL Engineering to the NYSDEC for review and approval, and past correspondence with NYSDEC representatives, the PCB-impacted topsoil associated with the subject site is under conditions considered suitable for segregation between material that contains greater than 50 ppm PCB and material that contains less than 50 ppm. Upon review of the results for the grab samples collected from sampling zones A-6 and A-7, it is noted that the higher PCB concentrations were associated with the eastern portions of these sampling zones. It is therefore proposed that affected topsoil within the east half of these zones be managed under the hazardous material classification and the affected topsoil within the west half of these zones be managed as soil impacted with less than 50 ppm PCB. For sampling zone B-3, all grab samples collected by ATL Engineering were determined to be well below the 50 ppm limit. Furthermore, there is a sapling located near the center of this zone that would have been planted with a root ball and immediate surrounding area finished with topsoil and sod separate from the PCB-impacted topsoil material. In consideration of this information, it is proposed that only the perimeter of zone B-3 be managed under the hazardous material classification, and the topsoil for the interior core of this zone be managed as soil impacted with less than 50 ppm PCB. Since the grab samples were collected approximately 7 feet diagonally inward from the zone corners, the perimeter strip of zone B-3 to be managed under the hazardous material classification should be 5 to 6 feet in width.

Other items identified during review of site data and existing site conditions, which are considered pertinent for further discussion with respect to future site remediation activities, include the saplings on the east side of the school building and the zones with non-detect PCB concentrations on the south side of the school building. With regard to the saplings, and in consideration of the surrounding soil primarily consisting of material that would have originated from a different source than that of the PCB-impacted topsoil, it is anticipated remediation work can be performed around the saplings. Approximately 4 to 6 inches of topsoil at the surface would be removed via a combination of mechanical excavator equipment and manual digging, as necessary to prevent damage to the saplings, and the saplings and associated root balls would be maintained as-is. With regard to the zones on the south side of the school building determined to have non-detect PCB concentrations, these areas would not require excavation. Available records indicate only two loads of topsoil from the PCB-impacted material staged at the RH Law property were hauled and deposited along the south side of the school building, and the balance of the topsoil placed at this location was purchased from a different supplier. Furthermore, the two loads were loaded and hauled on a different date than loads hauled and placed along the east side of the school building. It is therefore possible, although it cannot be confirmed, that the material comprising the two loads was from a portion of the original stockpile that was impacted by PCB to a lesser extent than other areas.

The information presented herein is provided as a summary of site investigations and soil sampling and analysis data collected for the PCB-impacted topsoil material placed at the Institute of Technology at Syracuse Central site, located at 258 East Adams Street, Syracuse, Onondaga County, New York. The conclusions and recommendations are provided for consideration and approval by the NYSDEC prior to preparation of a comprehensive Remedial Action Work Plan.

Please review the information presented and provide a response confirming agreement, or comment to the contrary. Please contact our office should you have any questions, or if you need additional information.

Sincerely,

ATL Engineering, P.C.

Cheyenne J. Dashnaw, PE Senior Project Manager

CJD/MBR/cjd

Attachments

cc: Richard Law, RH Law, Inc.

ATTACHMENT A

SITE LOCATION MAP

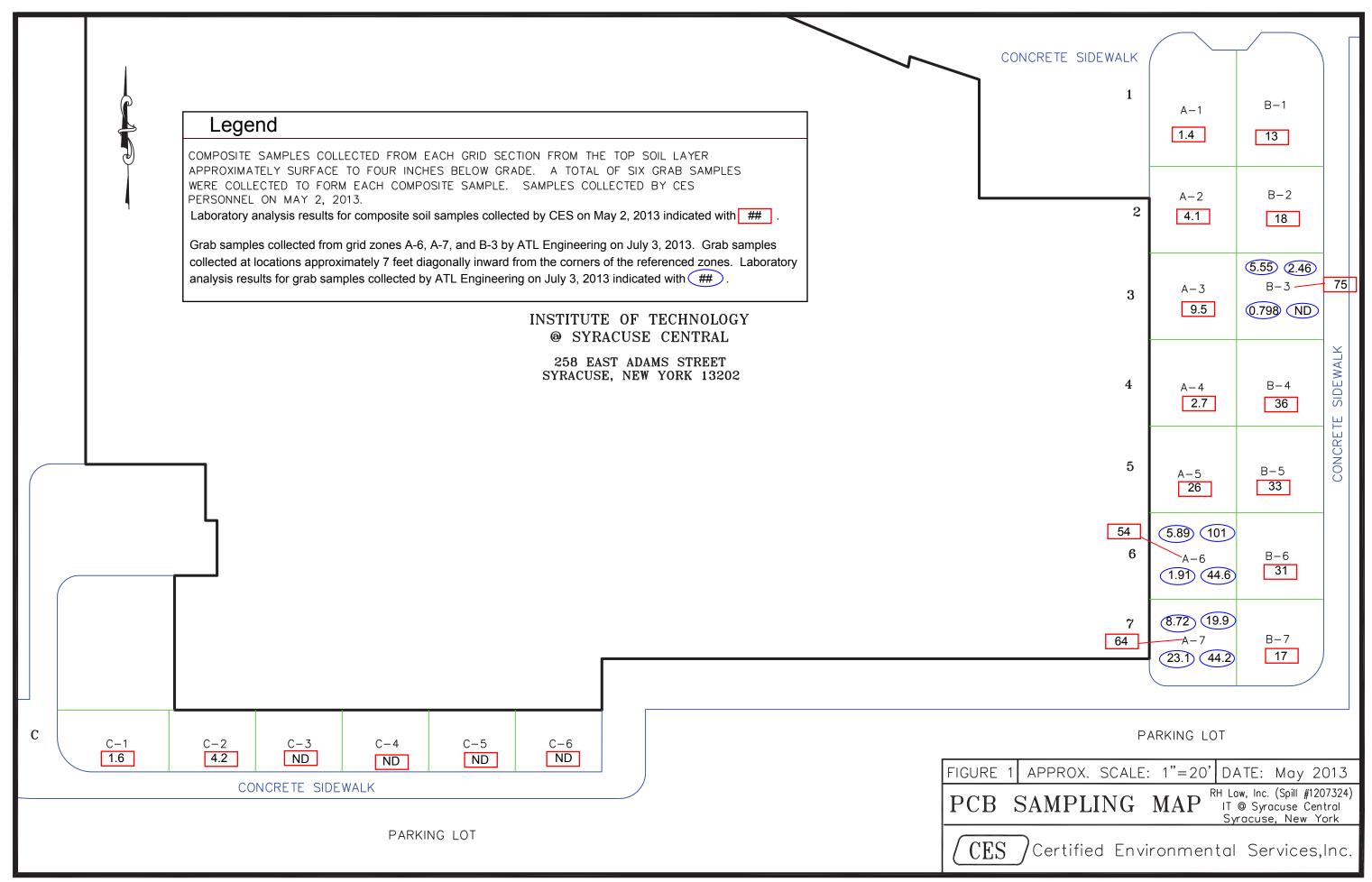


Syracuse Institute of Technology 258 East Adams Street Syracuse, New York

Albany, NY Poughkeepsie, NY Binghamton, NY Syracuse, NY

Canton, NY Rochester, NY Elmira, NY Utica, NY Plattsburgh, NY Watertown, NY

ATTACHMENT B SAMPLE LOCATION PLAN



ATTACHMENT C

LABORATORY REPORT AND

ASSOCIATED SAMPLE CUSTODY DOCUMENTATION



Pace Analytical e-Report

Report prepared for: ATLANTIC TESTING LABORATORIES, LTD 22 CORPORATE DR CLIFTON PARK, NY 12065 CONTACT: C. DASHNAW

Project ID: SYRACUSE IT Sampling Date(s): July 03, 2013 Lab Report ID: 13070099

Client Service Contact: Kelly Miller (518) 346-4592 ext. 23

Analysis Included: PCB Analysis PCB Analysis

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Jan Pfelger

Dan Pfalzer Laboratory Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virgi nia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308 Phone: 518.346.4592 | internet: www.pacelabs.com This page intentionally left blank.

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Section 4: GC - PCB	12
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CASE NARRATIVE

CASE NARRATIVE

This data package (SDG ID: 13070099) consists of 1 water sample and 13 soil samples received on 07/03/2013. The samples are from Project Name: SYRACUSE IT.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	Client ID	Collection Date
AQ15645	AE094S-IT01-07-03-13	07/03/2013 11:25
AQ15646	AE094S-IT02-07-03-13	07/03/2013 11:45
AQ15647	AE094S-IT03-07-03-13	07/03/2013 12:15
AQ15648	AE094S-IT04-07-03-13	07/03/2013 12:30
AQ15649	AE094S-IT05-07-03-13	07/03/2013 13:00
AQ15650	AE094S-IT06-07-03-13	07/03/2013 13:20
AQ15651	AE094S-IT07-07-03-13	07/03/2013 13:35
AQ15652	AE094S-IT08-07-03-13	07/03/2013 12:45
AQ15653	AE094S-IT09-07-03-13	07/03/2013 12:50
AQ15654	AE094S-IT10-07-03-13	07/03/2013 13:00
AQ15655	AE094S-IT11-07-03-13	07/03/2013 13:15
AQ15656	AE094S-IT12-07-03-13	07/03/2013 13:24
AQ15657	AE094FD-07-03-13	07/03/2013
AQ15658	AE0945RB-IT01-07-03-13	07/03/2013

Sample Delivery and Receipt Conditions

- (1.) Lab provided sample pickup service on 07/03/2013.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) The following cooler temperature was recorded at sample receipt (Control limits are between 0-6 Degrees Celsius): 0.2 (IR) degrees Celsius. Please see Chain of Custody for details.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by USEPA SW-846 Method 3535 Solid Phase Extraction. One-liter water samples were extracted by NEA-PACE SOP NE178_04. The following technical and administrative items were noted for the analysis:

(1.) All QC items were met for the following analysis.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1248 were flagged (AE) to denote that an altered Aroclor pattern was observed. Please see associated form for details.
- (2.) The surrogates DCBP and TCMX were diluted out for several samples (LAB ID: AQ15645, AQ15648, AQ15649, AQ15650, AQ15651, and AQ15652) due to the high concentration of PCB in the samples. Please see associated form for details.
- (3.) The surrogates DCBP and TCMX were diluted out for several quality control samples (LAB ID: AQ15656M and AQ15656K) due to the high concentration of PCB in the samples. Please see associated form for details.

Respectfully submitted,

Kelly A. miller

Kelly A. Miller

Project Manager

QUALIFIERS

Organic Laboratory Qualifiers Defined

- B Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.
- D Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Reporting Limit (RL).
- P Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.
- U Denotes analyte not detected at concentration greater than or equal to the Reporting Limit (RL). Reporting Limit's (RL) are adjusted for sample weight/volume and dilution factors.
- Z Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.
- * Value not within control limits.

Inorganic Laboratory Qualifiers Defined

- B Denotes analyte observed in associated method blank or digestion blank. Analyte concentration should be considered as estimated.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Reporting Limit (RL).
- U Denotes analyte not detected at concentration greater than or equal to the Reporting Limit (RL). Reporting Limit's (RL) are adjusted for sample weight/volume and dilution factors.
- * Value not within control limits.

SAMPLE CHAIN OF CUSTODY

<u>Canton</u>

ATLANTIC TESTING LABORATORIES **Environmental Chain-Of-Custody Record**

6866

Albany 22 Corporate Drive Clifton Park, NY 12065 518/383-9144 (T)

518/383-9166 (F)

Binghamton 126 Park Avenue Binghamton, NY 13903 607/773-1812 (T)

6431 U.S. Highway 11 Canton, NY 13617 315/386-4578 (T) 315/386-1012 (F) 607/773-1835 (F)

Elmira 2330 Route 352 Corning, NY 14903 607/737-0700 (T) 607/737-0714 (F)

Plattsburgh 130 Arizona Ave Plattsburgh, NY 12903 518/563-5878 (T) 518/562-1321 (F)

Poughkeepsie 251 Upper North Road Highland, NY 12528 845/691-6098 (T) 845/691-6099 (F)

Rochester 3445 Winton Road Rochester, NY 14623 585/427-9020 (T) 585/427-9021 (F)

Syracuse 6085 Court Street Road Syracuse, NY 13206 315/699-5281 (T) 315/699-3374 (F)

<u>Utica</u> 301 St. Anthony Street Utica, NY 13501 315/735-3309 (T) 315/735-0742 (F)

Watertown 26581 NYS Route 283 Watertown, NY 13601 315/786-7887 (T) 315/786-2022 (F)

			OA/QC Code		Parameters	Report	Distribution
Projec		Client Name	□ NYSDEC □ SW-846			Dates Required:	24-hr TAT
AE09		RHLaw	□ NYSDOH □ CLP □ Other	882		cdashnaw@a	Hantictesting &
Page 1 o		[6-10-1		1864		Send Report To:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Proje	et Contact:	Neyenne Dashnaw	Project Location	283		Fax Results:	Sex □ NO Sex
Pro	oject Name:	Syracuce_IT	Syracuse NY Sample No. of	EPA. ASE		Laboratory	SUMPLE ID
Date	Time	Sample Location	Sample No. of Type Containers	MA		Identification No.	AE 0945-ITOI-
07-03-13	11:25	ITOI	GS 13	X		AQ156-15	07-03-13
			GS 1	X		AQ15646	AE0945-IT02-
7-3-13		ITO2				AC0156417	AE0945-IT03-
7-3-13		IT03	65 1	X			AE0945-IT-04-
7-3-13	12-30	TT04	G-S 1	X		AQ15648	07-03-13 4E0445-ITO5-
7-3-13	(3200	IT05	GS 1	X		AQ15649	67-03-13 AE0945-ITO6-
7-3-13	13:20	7706	GS 1	<		AQ15650	17-03-13
7-3-13		IT07	G5 1	V		AQ15651	4=094-IT07-
			65 1	×		AQ15652	A E 0 94 - ITO 1-
7-3-13	12:45	ITO8	+			A015653	1 A E094- IT 07-
7-3-13	12:50	IT09	G5 1	×			07-63-13 AE094-IT10-
7-3-1	13200	IT 10	GS 1	X		AQ15654	Shipment Rec'd Intact?
Samplers N		Anna Vanderhoof	Date: 07-03-13	Received for Name:		Date:	
		aux March hogh	Time: 1405	Laboratory Signature:		Time:	YES INO
Samplers S	ignature:	- Mark Carlotter	THE	Samples Received By:	Samp	le Type Code Key:	Laboratory Remarks
	<u> </u>	Samples Relinquished By:			Description Description	_	0.2(1R)
Name	: Hnn	a Vanderhoof Date: 7	-3-13 Name: 4	nes Muzzky	Date: 7/3//2 C Composi	ite DW Drinking Water GW Groundwater	0,200
Signature	: Am	e Caroling Time: 14	15 Signature:	11holy	Time: 14.75 Q QA/QC	o Oil	
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Name	" JAMI	On a las	——————————————————————————————————————	1 115000	Time: 16:48	WW Wastewater	
Signature		Time:	Signature:	Via Colin	Time: [. o iV]		
		/ /		Think Quality -			

ATLANTIC TESTING LABORATORIES

Environmental Chain-Of-Custody Record

6867

Albany 22 Corporate Drive Clifton Park, NY 12065 518/383-9144 (T) Binghamton 126 Park Avenue Binghamton, NY 13903 607/773-1812 (T) 607/773-1835 (F) Canton 6431 U.S. Highway 11 Canton, NY 13617 315/386-4578 (T) 315/386-1012 (F) Elmira 2330 Route 352 Corning, NY 14903 607/737-0700 (T) 607/737-0714 (F) Plattsburgh
130 Arizona Ave
Plattsburgh, NY 12903
518/563-5878 (T)
518/562-1321 (F)

Poughkeepsie 251 Upper North Road Highland, NY 12528 845/691-6098 (T) 845/691-6099 (F) Rochester 3445 Winton Road Rochester, NY 14623 585/427-9020 (T) 585/427-9021 (F) Syracuse 6085 Court Street Road Syracuse, NY 13206 315/699-5281 (T) 315/699-3374 (F) Utica 301 St. Anthony Street Utica, NY 13501 315/735-3309 (T) 315/735-0742 (F) Watertown 26581 NYS Route 283 Watertown, NY 13601 315/786-7887 (T) 315/786-2022 (F)

		CIL V.		OA/OC Code		Parameters		Repor	t Distribution
AFO9 Page 20		RH Law	□ NYSD: □ NYSD: □ Other	EC SW-846 OH CLP	ist.			Dates Required:	24-hr TAT
Proje	ct Contact:	Cheyenne Dashn		oject Location	98087 E Extra			Send Report To: Fax Results:	YES D NO
Date	Time	Syrabuse IT Sample Location	Sample Type	e No. of	EPA ASE			Laboratory Identification No.	Field Notes
7-3-13	13:15	- 			X			AQ15655	AE094-TT11- 07-03-13
7-3-13		FIBI			X			AQ15656	AE094-ITI2- 07-03-13
7-3-13		MSIMSD	GS	• /	X			AC 35656	AE094 MS/D# IT-07-03-13
7-3-13		Field Duplic	inte GS	1	\times			AQ15057	AE094FD-IT-
7-3-13		Rinsecte Bian			$\langle \rangle$			AQ15658	AE094 RB-ITO/-
		1	. 0	07-03-13				Date:	Shipment Rec'd Intact?
Samplers N		Una Vanderh	Cook Date:	1408	Received for Nam Laboratory Signa			Time:	YES • NO
Samplers Si	gnature:	Samples Relinquished By:	V WALL FIRMS		Samples Receiv		Sai	nple Type Code Key:	Laboratory Remarks
Name	Anna		Date: 7-3-13	Name: Tau	ES Marsky	Date	7/7/13 C Comp		0.2 (IR)
Signature		lund herela	' India	Signature:	mark	Time	G Grab Q QA/Q	GW Groundwater C O Oil	
Name		es Munghy	Date: 7/3//3	1711	wa Swanhall	Date	Other	1	
Signature	111	men		Signature:	LIMSU	l Time	15 110	WW Wastewater	
	//				hink Qualit				

GC - PCB



Job Number: 13070099

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Client Sample ID: AE094S-IT01-07-03-13

Lab Sample ID: 13070099-01 (AQ15645)

Collection Date: 07/03/2013 11:25

Sample Matrix: SOIL

Received Date: 07/03/2013 16:48

Percent Solid: 84.2 - Results are based on dry weight unless otherwise noted.

Batc	h ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
	F-766-35	SW-846 8082 (PCB)	07/05/2013 18:14	AMR	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 22783		EPA 3545	07/05/2013 09:53	DKA	10.7 g	25.0 mL	NA
Analyte		CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016		12674-11-2	ND	1.11	20.0	U	GC10F-766-35
Aroclor 1221		11104-28-2	ND	1.11	20.0	U	GC10F-766-35
Aroclor 1232		11141-16-5	ND	1.11	20.0	U	GC10F-766-35
Aroclor 1242		53469-21-9	ND	1.11	20.0	U	GC10F-766-35
Aroclor 1248		12672-29-6	44.6	1.11	20.0	AE	GC10F-766-35
Aroclor 1254		11097-69-1	ND	1.11	20.0	U	GC10F-766-35
Aroclor 1260		11096-82-5	ND	1.11	20.0	U	GC10F-766-35
Total PCB Amount >	> RL	1336-36-3	44.6		20.0		GC10F-766-35
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	5)	\mathbf{Q}^1	File ID
Tetrachloro-meta-xy	lene	877-09-8	37.8	60.0	-140	D	GC10F-766-35
Decachlorobiphenyl		2051-24-3	13.1	60.0	-140	D	GC10F-766-35

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AE-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.



Job Number: 13070099

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Client Sample ID: AE094S-IT02-07-03-13 **Lab Sample ID:** 13070099-02 (AQ15646)

Collection Date: 07/03/2013 11:45

Sample Matrix: SOIL

Received Date: 07/03/2013 16:48

Percent Solid: 79.2 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-766-36	SW-846 8082 (PCB)	07/05/2013 18:27	AMR	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1:	22783	EPA 3545	07/05/2013 09:54	DKA	10.0 g	25.0 mL	NA
Analyte		CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016		12674-11-2	ND	0.126	2.00	U	GC10F-766-36
Aroclor 1221		11104-28-2	ND	0.126	2.00	U	GC10F-766-36
Aroclor 1232		11141-16-5	ND	0.126	2.00	U	GC10F-766-36
Aroclor 1242		53469-21-9	ND	0.126	2.00	U	GC10F-766-36
Aroclor 1248		12672-29-6	1.91	0.126	2.00	AE	GC10F-766-36
Aroclor 1254		11097-69-1	ND	0.126	2.00	U	GC10F-766-36
Aroclor 1260		11096-82-5	ND	0.126	2.00	U	GC10F-766-36
Total PCB Amo	ount > RL	1336-36-3	1.91		2.00		GC10F-766-36
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-me	ta-xylene	877-09-8	102	60.0	-140		GC10F-766-36
Decachlorobiph		2051-24-3	118	60.0	-140		GC10F-766-36

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AE-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.



Job Number: 13070099

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Client Sample ID: AE094S-IT03-07-03-13

Lab Sample ID: 13070099-03 (AQ15647)

Collection Date: 07/03/2013 12:15

Sample Matrix: SOIL

Received Date: 07/03/2013 16:48

Percent Solid: 79.4 - Results are based on dry weight unless otherwise noted.

Batch II	D Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-766	5-37 SW-846 8082 (PCB)	07/05/2013 18:40	AMR	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1: 22783	EPA 3545	07/05/2013 09:55	DKA	10.4 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Facto	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.182	3.00	U	GC10F-766-37
Aroclor 1221	11104-28-2	ND	0.182	3.00	U	GC10F-766-37
Aroclor 1232	11141-16-5	ND	0.182	3.00	U	GC10F-766-37
Aroclor 1242	53469-21-9	ND	0.182	3.00	U	GC10F-766-37
Aroclor 1248	12672-29-6	5.89	0.182	3.00	AE	GC10F-766-37
Aroclor 1254	11097-69-1	ND	0.182	3.00	U	GC10F-766-37
Aroclor 1260	11096-82-5	ND	0.182	3.00	U	GC10F-766-37
Total PCB Amount > RI	L 1336-36-3	5.89		3.00		GC10F-766-37
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(a)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID
Tetrachloro-meta-xylene	e 877-09-8	99.1	60.0	-140		GC10F-766-37
Decachlorobiphenyl	2051-24-3	116		-140		GC10F-766-37

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AE-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.



Job Number: 13070099

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Lab Sample ID: 13070099-04 (AQ15648)

Client Sample ID: AE094S-IT04-07-03-13

Collection Date: 07/03/2013 12:30

Sample Matrix: SOIL

Received Date: 07/03/2013 16:48

Percent Solid: 79.4 - Results are based on dry weight unless otherwise noted.

Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
SW-846 8082 (PCB)	07/05/2013 18:52	AMR	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
EPA 3545	07/05/2013 09:57	DKA	10.0 g	25.0 mL	NA
CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
12674-11-2	ND	4.40	70.0	U	GC10F-766-38
11104-28-2	ND	4.40	70.0	U	GC10F-766-38
11141-16-5	ND	4.40	70.0	U	GC10F-766-38
53469-21-9	ND	4.40	70.0	U	GC10F-766-38
12672-29-6	101	4.40	70.0	AE	GC10F-766-38
11097-69-1	ND	4.40	70.0	U	GC10F-766-38
11096-82-5	ND	4.40	70.0	U	GC10F-766-38
1336-36-3	101		70.0		GC10F-766-38
		Lin	nits		
CAS No.	% Recovery	(%	5)	$\mathbf{Q}^{^{1}}$	File ID
877-09-8	0.00	60.0	-140	D	GC10F-766-38
2051-24-3	0.00	60.0	-140	D	GC10F-766-38
	SW-846 8082 (PCB) EPA 3545 CAS No. 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 1336-36-3 CAS No. 877-09-8 2051-24-3	SW-846 8082 (PCB) 07/05/2013 18:52 EPA 3545 07/05/2013 09:57 CAS No. Result (ug/g) 12674-11-2 ND 11104-28-2 ND 11141-16-5 ND 53469-21-9 ND 12672-29-6 101 11097-69-1 ND 11096-82-5 ND 1336-36-3 101 CAS No. % Recovery 877-09-8 0.00	SW-846 8082 (PCB) 07/05/2013 18:52 AMR O7/05/2013 09:57 DKA CAS No. Result (ug/g) PQL 12674-11-2 ND 4.40 11104-28-2 ND 4.40 11141-16-5 ND 4.40 112672-29-6 ND 4.40 12672-29-6 ND 4.40 11097-69-1 ND 4.40 11097-69-1 ND 4.40 11096-82-5 ND 4.40 11096-82-5 ND 4.40 11096-82-5 ND 4.40 12672-29-6 ND 4.40 11096-82-5 ND 4.40 12672-29-6 ND 4.40 12672-29	SW-846 8082 (PCB) 07/05/2013 18:52 AMR NA EPA 3545 07/05/2013 09:57 DKA 10.0 g CAS No. Result (ug/g) PQL Dilution Fact 12674-11-2 ND 4.40 70.0 11104-28-2 ND 4.40 70.0 11141-16-5 ND 4.40 70.0 53469-21-9 ND 4.40 70.0 12672-29-6 101 4.40 70.0 11097-69-1 ND 4.40 70.0 11096-82-5 ND 4.40 70.0 1336-36-3 101 70.0 EAS No. % Recovery (%) 877-09-8 0.00 60.0-140 2051-24-3 0.00 60.0-140	SW-846 8082 (PCB) 07/05/2013 18:52 DKA AMR NA 10.0 g NA 25.0 mL CAS No. Result (ug/g) PQL Dilution Factor Flags 12674-11-2 ND 4.40 70.0 U 11104-28-2 ND 4.40 70.0 U 11141-16-5 ND 4.40 70.0 U 53469-21-9 ND 4.40 70.0 U 12672-29-6 101 4.40 70.0 U 11097-69-1 ND 4.40 70.0 U 11096-82-5 ND 4.40 70.0 U 1336-36-3 101 70.0 U EXS No. % Recovery (%) Q¹ 877-09-8 2051-24-3 0.00 60.0-140 D D 2051-24-3 0.00 60.0-140 D

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AE-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.



Job Number: 13070099

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Client Sample ID: AE094S-IT05-07-03-13

Lab Sample ID: 13070099-05 (AQ15649)

Collection Date: 07/03/2013 13:00

Sample Matrix: SOIL

Received Date: 07/03/2013 16:48

Percent Solid: 80.9 - Results are based on dry weight unless otherwise noted.

Batch I	D Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-76	6-39 SW-846 8082 (PCB)	07/05/2013 19:05	AMR	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 22783	EPA 3545	07/05/2013 10:02	DKA	10.1 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.614	10.0	U	GC10F-766-39
Aroclor 1221	11104-28-2	ND	0.614	10.0	U	GC10F-766-39
Aroclor 1232	11141-16-5	ND	0.614	10.0	U	GC10F-766-39
Aroclor 1242	53469-21-9	ND	0.614	10.0	U	GC10F-766-39
Aroclor 1248	12672-29-6	23.1	0.614	10.0	AE	GC10F-766-39
Aroclor 1254	11097-69-1	ND	0.614	10.0	U	GC10F-766-39
Aroclor 1260	11096-82-5	ND	0.614	10.0	U	GC10F-766-39
Total PCB Amount > R	L 1336-36-3	23.1		10.0		GC10F-766-39
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%		$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylen	e 877-09-8	79.1	60.0	-140	D	GC10F-766-39
Decachlorobiphenyl	2051-24-3	69.9	60.0	-140	D	GC10F-766-39

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AE-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.



Job Number: 13070099

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Client Sample ID: AE094S-IT06-07-03-13

Lab Sample ID: 13070099-06 (AQ15650)

Collection Date: 07/03/2013 13:20

Sample Matrix: SOIL

Received Date: 07/03/2013 16:48

Percent Solid: 79.9 - Results are based on dry weight unless otherwise noted.

Batch I	D Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-76	6-40 SW-846 8082 (PCB)	07/05/2013 19:17	AMR	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1: 22783	EPA 3545	07/05/2013 10:03	DKA	10.3 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Facto	or Flags	File ID
Aroclor 1016	12674-11-2	ND	1.21	20.0	U	GC10F-766-40
Aroclor 1221	11104-28-2	ND	1.21	20.0	U	GC10F-766-40
Aroclor 1232	11141-16-5	ND	1.21	20.0	U	GC10F-766-40
Aroclor 1242	53469-21-9	ND	1.21	20.0	U	GC10F-766-40
Aroclor 1248	12672-29-6	44.2	1.21	20.0	AE	GC10F-766-40
Aroclor 1254	11097-69-1	ND	1.21	20.0	U	GC10F-766-40
Aroclor 1260	11096-82-5	ND	1.21	20.0	U	GC10F-766-40
Total PCB Amount > R	L 1336-36-3	44.2		20.0		GC10F-766-40
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%		$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylen	e 877-09-8	3.00	60.0	-140	D	GC10F-766-40
Decachlorobiphenyl	2051-24-3	0.00	60.0	-140	D	GC10F-766-40
Oualifier column where '*' der	notes value outside the control limits or 'D'	denotes value was diluted out				

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AE-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.



Job Number: 13070099

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Client Sample ID: AE094S-IT07-07-03-13 **Lab Sample ID:** 13070099-07 (AQ15651)

Collection Date: 07/03/2013 13:35

Sample Matrix: SOIL

Received Date: 07/03/2013 16:48

Percent Solid: 79.4 - Results are based on dry weight unless otherwise noted.

Batch II	O Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-766	-41 SW-846 8082 (PCB)	07/05/2013 19:30	AMR	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 22783	EPA 3545	07/05/2013 10:04	DKA	10.3 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.614	10.0	U	GC10F-766-41
Aroclor 1221	11104-28-2	ND	0.614	10.0	U	GC10F-766-41
Aroclor 1232	11141-16-5	ND	0.614	10.0	U	GC10F-766-41
Aroclor 1242	53469-21-9	ND	0.614	10.0	U	GC10F-766-41
Aroclor 1248	12672-29-6	19.9	0.614	10.0	AE	GC10F-766-41
Aroclor 1254	11097-69-1	ND	0.614	10.0	U	GC10F-766-41
Aroclor 1260	11096-82-5	ND	0.614	10.0	U	GC10F-766-41
Total PCB Amount > RI	1336-36-3	19.9		10.0		GC10F-766-41
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	\mathbf{Q}^1	File ID
Tetrachloro-meta-xylene	877-09-8	49.3	60.0	-140	D	GC10F-766-41
Decachlorobiphenyl	2051-24-3	12.8		-140	D	GC10F-766-41

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AE-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.



Job Number: 13070099

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Client Sample ID: AE094S-IT08-07-03-13 **Lab Sample ID:** 13070099-08 (AQ15652)

Received Date: 07/03/2013 16:48

Percent Solid: 80.1 - Results are based on dry weight unless otherwise noted.

Collection Date: 07/03/2013 12:45

Sample Matrix: SOIL

Batch II	D Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-766	5-43 SW-846 8082 (PCB)	07/05/2013 19:55	AMR	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1: 22783	EPA 3545	07/05/2013 10:06	DKA	10.7 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.409	7.00	U	GC10F-766-43
Aroclor 1221	11104-28-2	ND	0.409	7.00	U	GC10F-766-43
Aroclor 1232	11141-16-5	ND	0.409	7.00	U	GC10F-766-43
Aroclor 1242	53469-21-9	ND	0.409	7.00	U	GC10F-766-43
Aroclor 1248	12672-29-6	8.72	0.409	7.00	AE	GC10F-766-43
Aroclor 1254	11097-69-1	ND	0.409	7.00	U	GC10F-766-43
Aroclor 1260	11096-82-5	ND	0.409	7.00	U	GC10F-766-43
Total PCB Amount > RI	1336-36-3	8.72		7.00		GC10F-766-43
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylene	877-09-8	61.9	60.0	-140	D	GC10F-766-43
Decachlorobiphenyl	2051-24-3	75.4	60.0	-140	D	GC10F-766-43

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AE-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.



Job Number: 13070099

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Client Sample ID: AE094S-IT09-07-03-13 **Lab Sample ID:** 13070099-09 (AQ15653)

Collection Date: 07/03/2013 12:50

Sample Matrix: SOIL

Received Date: 07/03/2013 16:48

Percent Solid: 80.9 - Results are based on dry weight unless otherwise noted.

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AE-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.



Job Number: 13070099

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Client Sample ID: AE094S-IT10-07-03-13 **Lab Sample ID:** 13070099-10 (AQ15654)

Collection Date: 07/03/2013 13:00

Sample Matrix: SOIL

Received Date: 07/03/2013 16:48

Percent Solid: 78.8 - Results are based on dry weight unless otherwise noted.

Bate	ch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
	F-766-45	SW-846 8082 (PCB)	07/05/2013 20:20	AMR	NA NA	NA NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 22783	3	EPA 3545	07/05/2013 10:09	DKA	10.3 g	25.0 mL	NA
Analyte		CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016		12674-11-2	ND	0.0614	1.00	U	GC10F-766-45
Aroclor 1221		11104-28-2	ND	0.0614	1.00	U	GC10F-766-45
Aroclor 1232		11141-16-5	ND	0.0614	1.00	U	GC10F-766-45
Aroclor 1242		53469-21-9	ND	0.0614	1.00	U	GC10F-766-45
Aroclor 1248		12672-29-6	ND	0.0614	1.00	U	GC10F-766-45
Aroclor 1254		11097-69-1	ND	0.0614	1.00	U	GC10F-766-45
Aroclor 1260		11096-82-5	ND	0.0614	1.00	U	GC10F-766-45
Total PCB Amount	> RL	1336-36-3	ND		1.00	U	GC10F-766-45
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	6)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xy	ylene	877-09-8	73.4	60.0	-140		GC10F-766-45
Decachlorobiphenyl		2051-24-3	85.4	60.0	-140		GC10F-766-45

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Job Number: 13070099

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Client Sample ID: AE094S-IT11-07-03-13 **Lab Sample ID:** 13070099-11 (AQ15655)

Collection Date: 07/03/2013 13:15

Sample Matrix: SOIL

Received Date: 07/03/2013 16:48

Percent Solid: 77.5 - Results are based on dry weight unless otherwise noted.

Batcl	h ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F	7-766-46	SW-846 8082 (PCB)	07/05/2013 20:33	AMR	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 22783		EPA 3545	07/05/2013 10:10	DKA	10.4 g	25.0 mL	NA
Analyte		CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016		12674-11-2	ND	0.124	2.00	U	GC10F-766-46
Aroclor 1221		11104-28-2	ND	0.124	2.00	U	GC10F-766-46
Aroclor 1232		11141-16-5	ND	0.124	2.00	U	GC10F-766-46
Aroclor 1242		53469-21-9	ND	0.124	2.00	U	GC10F-766-46
Aroclor 1248		12672-29-6	2.46	0.124	2.00	AΕ	GC10F-766-46
Aroclor 1254		11097-69-1	ND	0.124	2.00	U	GC10F-766-46
Aroclor 1260		11096-82-5	ND	0.124	2.00	U	GC10F-766-46
Total PCB Amount >	> RL	1336-36-3	2.46		2.00		GC10F-766-46
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xyl	lene	877-09-8	92.0	60.0	-140		GC10F-766-46
Decachlorobiphenyl		2051-24-3	107	60.0	-140		GC10F-766-46

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AE-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.



Job Number: 13070099

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Client Sample ID: AE094S-IT12-07-03-13

Lab Sample ID: 13070099-12 (AQ15656)

Collection Date: 07/03/2013 13:24

Sample Matrix: SOIL

Received Date: 07/03/2013 16:48

Percent Solid: 79.9 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-766-47	SW-846 8082 (PCB)	07/05/2013 20:46	AMR	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1:	22783	EPA 3545	07/05/2013 10:11	DKA	10.4 g	25.0 mL	NA
Analyte		CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016	•	12674-11-2	ND	0.300	5.00	U	GC10F-766-47
Aroclor 1221		11104-28-2	ND	0.300	5.00	U	GC10F-766-47
Aroclor 1232		11141-16-5	ND	0.300	5.00	U	GC10F-766-47
Aroclor 1242		53469-21-9	ND	0.300	5.00	U	GC10F-766-47
Aroclor 1248		12672-29-6	5.55	0.300	5.00	AE	GC10F-766-47
Aroclor 1254		11097-69-1	ND	0.300	5.00	U	GC10F-766-47
Aroclor 1260		11096-82-5	ND	0.300	5.00	U	GC10F-766-47
Total PCB Am	ount > RL	1336-36-3	5.55		5.00		GC10F-766-47
				Lin	nits	1	
Surrogate		CAS No.	% Recovery	(%	b)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID
Tetrachloro-me	eta-xylene	877-09-8	83.6	60.0	-140		GC10F-766-47
Decachlorobipl		2051-24-3	91.6	60.0	-140		GC10F-766-47

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AE-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.



Job Number: 13070099

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Client Sample ID: AE094FD-07-03-13

Lab Sample ID: 13070099-13 (AQ15657)

Collection Date: 07/03/2013 Sample Matrix: SOIL

Received Date: 07/03/2013 16:48

Percent Solid: 80.2 - Results are based on dry weight unless otherwise noted.

Bato	ch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10	F-766-50	SW-846 8082 (PCB)	07/05/2013 21:23	AMR	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1: 22783	3	EPA 3545	07/05/2013 10:15	DKA	10.2 g	25.0 mL	NA
Analyte		CAS No.	Result (ug/g)	PQL	Dilution Factor	or Flags	File ID
Aroclor 1016		12674-11-2	ND	0.245	4.00	U	GC10F-766-50
Aroclor 1221		11104-28-2	ND	0.245	4.00	U	GC10F-766-50
Aroclor 1232		11141-16-5	ND	0.245	4.00	U	GC10F-766-50
Aroclor 1242		53469-21-9	ND	0.245	4.00	U	GC10F-766-50
Aroclor 1248		12672-29-6	4.56	0.245	4.00	AE	GC10F-766-50
Aroclor 1254		11097-69-1	ND	0.245	4.00	U	GC10F-766-50
Aroclor 1260		11096-82-5	ND	0.245	4.00	U	GC10F-766-50
Total PCB Amount	> RL	1336-36-3	4.56		4.00		GC10F-766-50
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xy		877-09-8	77.9	60.0	-140		GC10F-766-50
Decachlorobiphenyl		2051-24-3	87.3	60.0	-140		GC10F-766-50

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AE-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.



Job Number: 13070099

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Client Sample ID: AE0945RB-IT01-07-03-13 **Lab Sample ID:** 13070099-14 (AQ15658)

Collection Date: 07/03/2013 Sample Matrix: WATER

Received Date: 07/03/2013 16:48

Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC28F-1043-9	SW-846 Method 8082	07/05/2013 13:39	AJM	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 22784	EPA 3535	07/05/2013 10:05	KEN	1080 mL	10.0 mL	NA
Analyte	CAS No.	Result (ug/L)	PQL	Dilution Facto	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC28F-1043-9
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC28F-1043-9
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC28F-1043-9
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC28F-1043-9
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC28F-1043-9
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC28F-1043-9
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC28F-1043-9
Total PCB Amount	1336-36-3	ND		1.00	U	GC28F-1043-9
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylene	877-09-8	85.2	60.0	-140		GC28F-1043-9
Decachlorobiphenyl	2051-24-3	95.4	60.0	-140		GC28F-1043-9

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Field)



Quality Control Results Matrix Spike Sample (MS)

Job Number: 13070099

Pace Analytical Services, Inc. 2190 Technology Drive

Column

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Method

Project: SYRACUSE IT

Client Sample ID: AE094S-IT12-07-03-13 MS

Lab Sample ID: 13070099-12M (AQ15656M)

Collection Date: N/A Sample Matrix: SOIL Received Date: N/A

Percent Solid: 79.9 - Results are based on dry weight unless otherwise noted.

Init Wt./Vol. Final Vol.

Analysis I:	GC10F-766-48	SW-846 8082 (PCB)	07/05/2013 20:58	AMR	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μ m
Prep 1: 2	22783	EPA 3545	07/05/2013 10:13	DKA	10.3 g	25.0 mL	NA
Analyte		CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016		12674-11-2	ND	0.610	10.0	U	GC10F-766-48
Aroclor 1221		11104-28-2	ND	0.610	10.0	U	GC10F-766-48
Aroclor 1232		11141-16-5	15.8	0.610	10.0		GC10F-766-48
Aroclor 1242		53469-21-9	ND	0.610	10.0	U	GC10F-766-48
Aroclor 1248		12672-29-6	ND	0.610	10.0	U	GC10F-766-48
Aroclor 1254		11097-69-1	ND	0.610	10.0	U	GC10F-766-48
Aroclor 1260		11096-82-5	ND	0.610	10.0	U	GC10F-766-48
Total PCB Amo	ount > RL	1336-36-3	15.8		10.0		GC10F-766-48

		Sample	Added	MS	MS	1	Limits	
Analyte Spiked	CAS No.	(ug/g)	(ug/g)	(ug/g)	% Rec.	$\mathbf{Q}^{'}$	(%)	
Aroclor 1232	11141-16-5		12.2	15.8	129		70.0-130	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	4	
Surrogate	CAS No.	% Recovery	(%)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylene	877-09-8	70.0	60.0-140	D	GC10F-766-48
Decachlorobiphenyl	2051-24-3	64.5	60.0-140	D	GC10F-766-48

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

20



Quality Control Results Matrix Spike Duplicate (MSD)

Job Number: 13070099

Pace Analytical Services, Inc. 2190 Technology Drive

Column

2.32

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Method

Project: SYRACUSE IT

Analyte Spiked

Batch ID

Client Sample ID: AE094S-IT12-07-03-13 MSD **Lab Sample ID:** 13070099-12K (AQ15656K)

Collection Date: N/A Sample Matrix: SOIL Received Date: N/A

Analyst Init Wt./Vol. Final Vol.

Percent Solid: 79.9 - Results are based on dry weight unless otherwise noted.

Analysis 1:	GC10F-766-49	SW-846 8082 (PCB)		07/05/2013	21:11	AMR	NA	·	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.1	8 mm ID, 0.18 μr
Prep 1:	22783	EPA 3545		07/05/2013	10:13	DKA	10.2	g	25.0 mL	NA	
Analyte		CAS No.	R	esult (ug/g)		PQL	Dilutio	n Factor	Flags	File ID	
Aroclor 1016		12674-11-2		ND		0.613	10	.0	U	GC10F-766-49	
Aroclor 1221		11104-28-2		ND		0.613	10	.0	U	GC10F-766-49	
Aroclor 1232		11141-16-5		15.7		0.613	10	.0		GC10F-766-49	
Aroclor 1242		53469-21-9		ND		0.613	10	.0	U	GC10F-766-49	
Aroclor 1248		12672-29-6		ND		0.613	10	.0	U	GC10F-766-49	
Aroclor 1254		11097-69-1		ND		0.613	10	.0	U	GC10F-766-49	
Aroclor 1260		11096-82-5		ND		0.613	10	.0	U	GC10F-766-49	
Total PCB Amo	ount > RL	1336-36-3		15.7			10	.0		GC10F-766-49	
										Precision	
			Sample	e Added	MS	SD M	SD	Limit	N	1S	Limits
Analyte Spike	ed	CAS No.	(ug/g)	(ug/g)	(ug		Rec. Q	¹ (%)		Rec. RPD \mathbf{Q}^1	(%)

% Rec.

Aroclor 1232	11141-16-5	12.3	15.7	128	70.0-130	129
1 Oualifier column where '*' deno	otes value outside the control limits. Note: R	RPD criteria does	not apply if eith	er the sample and d	uplicate sample are not d	letected.

			Limits			
Surrogate	CAS No.	% Recovery	(%)	$\mathbf{Q}^{^{1}}$	File ID	
Tetrachloro-meta-xylene	877-09-8	63.9	60.0-140	D	GC10F-766-49	
Decachlorobiphenyl	2051-24-3	53.1	60.0-140	D	GC10F-766-49	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Lab)



Quality Control Results Method Blank

Job Number: 13070099

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Client Sample ID: Method Blank (AQ15656B)

Lab Sample ID: PBLK-71

Collection Date: N/A Sample Matrix: SOIL Received Date: N/A Percent Solid: N/A

I	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-766-33	SW-846 8082 (PCB)	07/05/2013 17:43	AMR	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 2	2783	EPA 3545	07/05/2013 09:52	DKA	10.7 g	25.0 mL	NA
Analyte		CAS No.	Result (ug/g)	PQL	Dilution Facto	or Flags	File ID
Aroclor 1016		12674-11-2	ND	0.0500	1.00	U	GC10F-766-33
Aroclor 1221		11104-28-2	ND	0.0500	1.00	U	GC10F-766-33
Aroclor 1232		11141-16-5	ND	0.0500	1.00	U	GC10F-766-33
Aroclor 1242		53469-21-9	ND	0.0500	1.00	U	GC10F-766-33
Aroclor 1248		12672-29-6	ND	0.0500	1.00	U	GC10F-766-33
Aroclor 1254		11097-69-1	ND	0.0500	1.00	U	GC10F-766-33
Aroclor 1260		11096-82-5	ND	0.0500	1.00	U	GC10F-766-33
Total PCB Amo	unt > RL	1336-36-3	ND		1.00	U	GC10F-766-33
				Lin	nits	1	
Surrogate		CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID
Tetrachloro-met	a-xylene	877-09-8	103	60.0	-140		GC10F-766-33
Decachlorobiphe		2051-24-3	116	60.0	-140		GC10F-766-33

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 13070099

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Client Sample ID: Lab Control Sample (AQ15656L)

Lab Sample ID: LCS-71

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-766-34	SW-846 8082 (PCB)	07/05/2013 18:02	AMR	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1:	22783	EPA 3545	07/05/2013 09:52	DKA	10.6 g	25.0 mL	NA

		Added	LCS	LCS	Limits
Analyte Spiked	CAS No.	(ug/g)	(ug/g)	% Rec.	Q' (%)
Aroclor 1232	11141-16-5	1.18	1.26	107	70.0-130

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	1
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
Tetrachloro-meta-xylene	877-09-8	107	60.0-140	GC10F-766-34
Decachlorobiphenyl	2051-24-3	120	60.0-140	GC10F-766-34

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Method Blank

Job Number: 13070099

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Client Sample ID: Method Blank (AQ15658B)

Lab Sample ID: PBLK-72

Collection Date: N/A Sample Matrix: WATER Received Date: N/A Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC28F-1043-	7 SW-846 Method 8082	07/05/2013 13:12	AJM	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 22784	EPA 3535	07/05/2013 10:05	KEN	1000 mL	10.0 mL	NA
Analyte	CAS No.	Result (ug/L)	PQL	Dilution Facto	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC28F-1043-7
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC28F-1043-7
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC28F-1043-7
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC28F-1043-7
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC28F-1043-7
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC28F-1043-7
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC28F-1043-7
Total PCB Amount	1336-36-3	ND		1.00	U	GC28F-1043-7
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(a)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID
Tetrachloro-meta-xylene	877-09-8	84.1	60.0	-140		GC28F-1043-7
Decachlorobiphenyl	2051-24-3	104	60.0	-140		GC28F-1043-7

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 13070099

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: ATLANTIC TESTING LABORATORIES, LTD

Project: SYRACUSE IT

Client Sample ID: Lab Control Sample (AQ15658L)

Lab Sample ID: LCS-72

Collection Date: N/A Sample Matrix: WATER Received Date: N/A Percent Solid: N/A

(
	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC28F-1043-8	SW-846 Method 8082	07/05/2013 13:25	AJM	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	22784	EPA 3535	07/05/2013 10:05	KEN	1000 mL	10.0 mL	NA

		Added	LCS	LCS	Limits
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	% Rec.	Q (%)
Aroclor 1242	53469-21-9	0.500	0.521	104	70.0-130

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
Tetrachloro-meta-xylene	877-09-8	85.9	60.0-140	GC28F-1043-8
Decachlorobiphenyl	2051-24-3	105	60.0-140	GC28F-1043-8

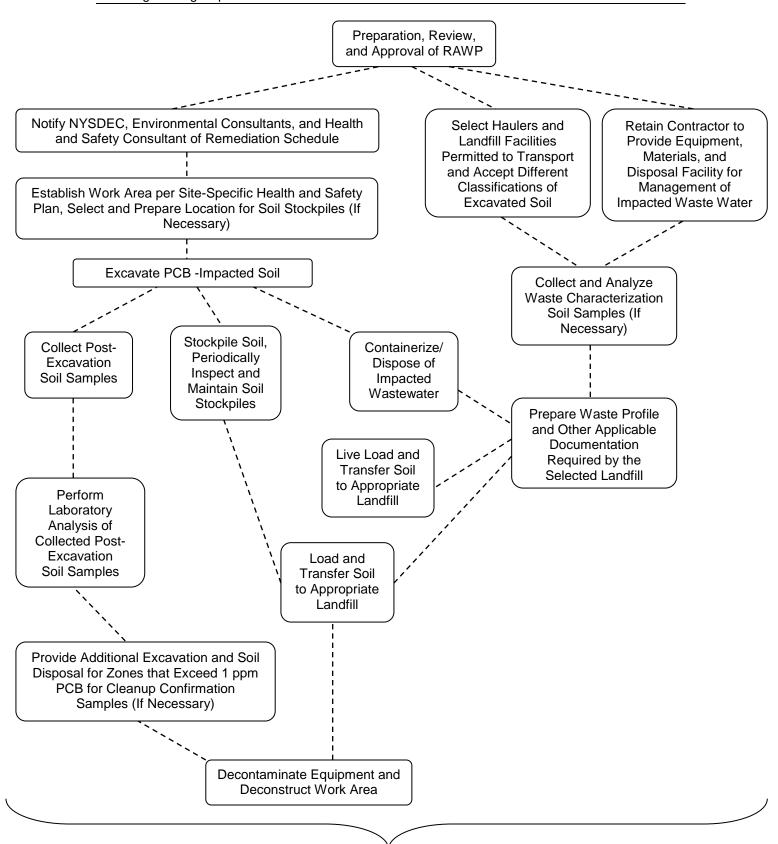
¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Appendix D

Project Remediation Flow Chart



Prepare and Distribute Remedial Action Report

Appendix E

Post-Excavation Soil Sampling Plan

